

Product Texts

NORYL GTX™ 987 resin is a conductive, high performance non-reinforced alloy of Polyphenylene Ether (PPE) + Polyamide (PA). This injection moldable grade is optimized for primer-less electrostatic painting. NORYL GTX987 resin exhibits a low coefficient of thermal expansion (CTE) of ~7. This material is an excellent candidate for automotive applications such as body panels, tank flaps, and tailgates.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	7	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
Density of melt	1080	kg/m ³	-
Thermal conductivity of melt	0.21	W/(m K)	-
Spec. heat capacity of melt	1900	J/(kg K)	-
Ejection temperature	223	°C	-
ASTM Data			
Melt Flow Index, MFI	8.5	g/10min	ASTM D 1238
Temperature	280	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3000	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	62	MPa	ISO 527
Strain at break	20	%	ISO 527
Flexural modulus	2800	MPa	ISO 178
Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 4mm	8	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	3250	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	55	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	15	%	ASTM D 638
Flexural Modulus	2700	MPa	ASTM D 790
Izod Impact notched, 1/8 in	90	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	70	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 0.45 MPa	190	°C	ISO 75-1/-2
Vicat softening temperature, B	198	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	200	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	75	E-6/K	ISO 11359-1/-2
ASTM Data			
DTUL @ 66 psi	185	°C	ASTM D 648
Vicat Temperature	192	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Water absorption	3	%	Sim. to ISO 62
Humidity absorption	0.9	%	Sim. to ISO 62
Density	1250	kg/m ³	ISO 1183
Density	1250	kg/m ³	ASTM D 792

NORYL GTX™ Resin GTX987 - Americas

(PPE+PA*)-MF

Saudi Basic Industries Corporation (SABIC)

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	100 - 110	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.02	%	-
Melt temperature	300 - 320	°C	-
Mold temperature	100 - 120	°C	-
Feed temperature	80 - 100	°C	-
Zone 1	260 - 280	°C	-
Zone 2	280 - 300	°C	-
Zone 3	300 - 320	°C	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America